Owns ▶

Website

Creates ▶

Forum

User

Thread

Member

Message

Post ▶

Owner

Moderator

Accept

Moderate ▶

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Yifu Ge - yg458
Shyam Patel - sap376

Website

- name: String

+ getName(): String

User

username: String

+ getUsername(): String
+ createForum(): Forum
+ joinForum(forum: Forum)

Member

+ postMessage(message: Message)
+ readMessage(message: Message)
+ leaveForum(forum: Forum)

Accept

+ isApproved: boolean

+ setApproval(approval: boolean)

Owner

+ inviteUser(user: User, forum: Forum)
+ inviteModerator(member: Member)
+ inviteNewOwner(member: Member)
+ deleteForum(forum: Forum)

Message

- date: int
- subject: String

+ getDate(): int
+ getSubject(): String

Thread

- threadName: String
- initialMessage: Message

+ getThreadName(): String
+ getInitialMessage(): Message

Moderator

+ moderateMessage(message: Message) : Accept
+ resignModerator(forum: Forum)

Forum

- forumName: String

+ getForumName(): String
+ filterByAuthor(author: Member):
ArrayList<Message>
+ filterByThread(message: Message) :
ArrayList<Message>
+ filterByDate(date: int): ArrayList<Message>
+filterByDates(date: int, date: int):
ArrayList<Message>
+ sortByAuthor(author: Member):
ArrayList<Message>
+ sortByAuthorFiltered(author: Member,
messages: ArrayList<Message>):
ArrayList<Message>
+ sortByDate(date: int): ArrayList<Message.
+ sortByDateFiltered(date: int, messages:
ArrayList<Messages>): ArrayList<Message>
+ sortByDateFilteredRev(date: int, messages:
ArrayList<Messages>): ArrayList<Message>
+ sortByThread(subject: String):
ArrayList<Message>

Association Relationships Data Structures	
Class	Data Structure(s)
Website	ArrayList<User> ArrayList<Forum>
User	website: Website
Member	forumMember: ArrayList<Forum> posts: ArrayList<Message>
Owner	forumOwner: ArrayList<Forum>
Moderator	forumModerator: ArrayList<Forum> acceptedMessages: ArrayList<Message>
Message	author: Member thread: Thread
Thread	threadMessages: ArrayList<Message> forum: Forum
Forum	threads: ArrayList<Thread> members: ArrayList<Member>
Accept	moderator: Moderator messageApproved: Message